

# PATENT COOPERATION TREATY

## Rec'd PCT/PTO 06 JUL 2004 PCT

REC'D 28 APR 2004

WIPC PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>020026PC</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/SE2003/000052</b>	International filing date (day/month/year) <b>15.01.2003</b>	Priority date (day/month/year) <b>28.01.2002</b>
International Patent Classification (IPC) or national classification and IPC <b>G07B 15/02, G07C 1/30, G07F 7/00</b>		
Applicant <b>Modul-System Sweden AB et al</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☐ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
    - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
 

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand <b>05.08.2003</b>	Date of completion of this report <b>16.04.2004</b>
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  <b>Inger Löfving / JA A</b> Telephone No. +46 8 782 25 00

**Box No. I Basis of the report**

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☒ This report is based on a translation from the original language into the following language English, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))  
☒ publication of the international application (under Rule 12.4)  
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 8 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the claims:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages\* 1 - 2 received by this Authority on 22.01.2004

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the drawings:

pages 1 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-7</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-7</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-7</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method of controlling parked vehicles that solve the problem with the number of entries required by the attendants through the unit keypad, and simplify handling of the control unit.

## Cited documents:

D1: US 5263118 A  
D2: WO 0116906 A1  
D3: WO 9737328 A1  
D4: WO 9611453 A1

Document D1 (col. 1 line 66 - col. 3, fig. 1 - 3) discloses a method where the control unit includes a hand-held unit with voice-recognition circuitry. The voiced communication relates to a license plate number. Upon receipt of voiced signal a stand-alone computer searches a data file for unpaid violations.

Document D2 discloses a parking control system in which a mobile telephone can be used to commence and to terminate parking of a vehicle. The registration number is used to identify the vehicle. Parked vehicles are checked by an attendant causing a control unit to mechanically read the vehicle reference on the marked vehicle.

The amended claims of 2004-01-22 differs from all previously known documents in the fact that neither of them discloses a method for controlling a parked vehicle, wherein a control unit is provided for wireless communication with a computer to fetch information as to identity of those vehicles that are

.../...

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

still logged into the system. The control unit includes a mobile telephone that sends a voice message from the attendant which includes a vehicle registration number. The computer compares this registration number with the logged-in vehicles numbers and sends a voice message to the mobile telephone in which the registration number is repeated in the mobile telephone and which includes information as to whether is logged-in or not and wherein the unique telephone number of the mobile telephone of the parking attendant is detected and stored in the computer.

The method claimed differs from all relevant documents and is therefore considered to have novelty.

The invention is not obvious and is therefore considered to involve an inventive step.

There is no reason to doubt the industrial applicability of the claimed method.

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ART 34 ANDT

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## CLAIMS

1. A method of controlling a parked vehicle in which a mobile telephone can be used to commence and to terminate parking of a vehicle, wherein a user sends at least one user specific code to a receiving computer (3) belonging to the parking system via a mobile telephone system or via a fixed telephone system when beginning and terminating a parking period, wherein at the beginning of a parking period the identity of the parking zone concerned is sent to the parking system in which a vehicle specific code is stored in said computer (3) and tied to the user specific code, wherein a control unit is provided for wireless communication with said computer to fetch information as to the identity of those vehicles that have commenced but not yet terminated a parking period in the zone concerned, i.e. are still logged into the parking system, and wherein the invention is characterised in that the control unit includes a mobile telephone (1) that sends to a receiving telephone device (2) coupled to said computer (3) a voice message from said attendant which includes a vehicle registration number, wherein the computer (3) compares this registration number with the registration numbers of logged-in vehicles; and wherein the computer (3) is caused to send to the mobile telephone (1) a voice message in which the registration number understood by the computer (3) is repeated in the mobile telephone (1) and which includes information as to whether the vehicle is logged-in or not.
2. A method according to Claim 1, **characterised** in that the computer (3) is arranged to inform the parking attendant, also via said voice message, in which parking zone the vehicle is logged-in.
3. A method according to Claim 2, **characterised** in that in those instances when a vehicle is not deemed to be wrongly parked in a relevant parking zone until a given predetermined length of time has passed, the computer (3) is caused to store the registration number of the vehicle together with the time at which the parking attendant reported said registration number, wherein the parking attendant again reports the registration number later on, if the vehicle is still parked and the computer (3) sends a voice message reporting whether the vehicle is logged-in or not.

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ART 34 AMDT

4. A method according to Claim 1, 2 or 3, **characterised** in that the receiving telephone arrangement (2) includes a voice interpreting device which functions to interpret the registration number spoken into the mobile telephone (1) by the parking attendant.

5. A method according to Claim 1, 2, 3 or 4, **characterised** in that the mobile telephone (1) of each parking attendant has a unique telephone number and in that this number is detected by the telephone arrangement and stored in the computer (3) together with a message sent by the parking attendant.

6. A method according to Claim 1, 2, 3, 4 or 5, **characterised** in that the voice interpreting device is able to recognise and identify the voice of each parking attendant.

7. A method according to any one of the preceding Claims, **characterised** in that in the event of the computer informing the parking attendant, via the mobile telephone, that a vehicle is not logged-in, the attendant is able to send a confirmation message to the computer by an appropriate entry through the keypad of the mobile telephone or by an appropriate voice message.